

3.5 Graphing Sine & Cosine odd answers

1. $\frac{1}{2}$

3. 0

5. 1

7. $(\frac{\pi}{4}, 0), (-\frac{\pi}{3}, 0)$

9. $(\frac{7\pi}{12}, 0), (0, 0)$

11. $(-\frac{4\pi}{3}, 3)$

13. $(\frac{3\pi}{2}, 0)$

15. Amplitude: 1, Period: 2π

Frequency: $\frac{1}{2\pi}$, Phase shift: right $\frac{\pi}{2}$

Range: $[-1, 1]$

17. Amplitude: 3, Period: 2π ,

Frequency: $\frac{2}{\pi}$

Phase shift: none

Range: $[-3, 3]$

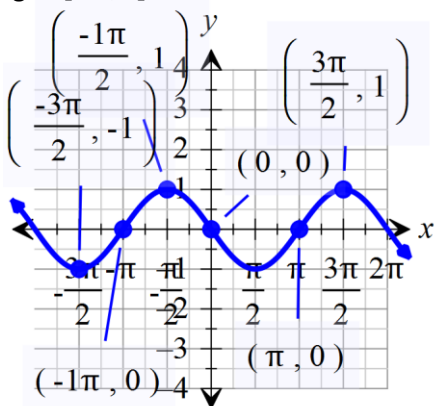
19. Amplitude: 1

Period: 2π

Frequency: $\frac{1}{2\pi}$

Phase shift: none

Range: $[-1, 1]$



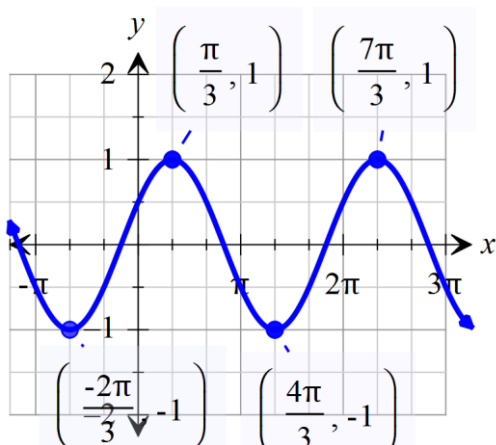
21. Amplitude: 1

Period: 2π

Frequency: $\frac{1}{2\pi}$

Phase shift: right $\frac{\pi}{3}$

Range: $[-1, 1]$



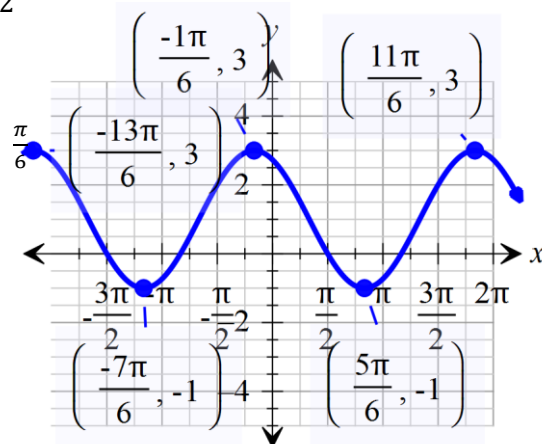
23. Amplitude: 2

Period: 2π

Frequency: $\frac{1}{2\pi}$

Phase shift: left $\frac{\pi}{6}$

Range: $[-1, 3]$



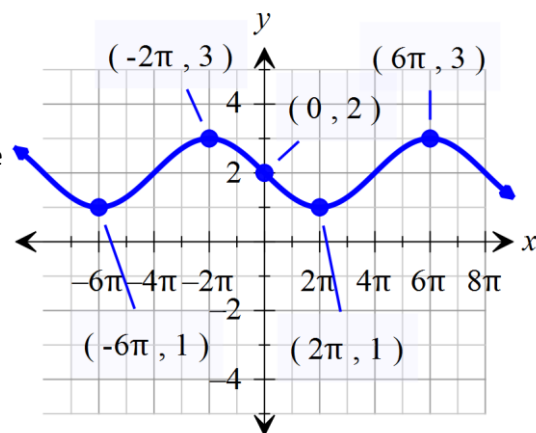
25. Amplitude: 1

Period: 8π

Frequency: $\frac{1}{8\pi}$

Phase shift: none

Range: $[1, 3]$



27. $f(x) = 2 \sin\left(2\left(x - \frac{\pi}{4}\right)\right)$